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GURMAN DELEGATION

COCOM DOC 4130
Paris, September 7,1960

COORDINATING COM ITTLE MEMORANDUM BY THE GERMAN DESEGRATION ON THE EXPORT OF MODULATING BAYS AND RADIO BAYS TO HUNGARY

The German Delegation wish to inform the Committee that their authorities have received an application to deliver

one Hertzian link FM 960- TV/4000 consisting of 3 modulating bays and 3 radio bays with 1 antenna valued at 59.524, --% covered by item 1520

to Hungary. The radio bays have the type number Rel 138 y 1d, the modulating bays Rel 136 y 6c. The system operates with frequency modulation at a radio frequency around 4,000 mc/s (7.5 cm). The capacity of the transmitter amounts, que to the short distance between the Austrian station Anninger and the Hungarian border station Sopron, to only 5 watt. The three radio bays are to be used to telephone and television, i. e. one pair for the transmission of 960 voices, the second pair for television and the third one as reserve for the two other pairs.

The German Delegation would like to give following information on this request: the Austrian PT-administration is building up a new information network with Hertzian links. For the connection with Hungary is needed one Hertzian link on the Hungarian territory, since the stations on both sides of the border must have the same technique. On the Austrian side a branch is provided in the station Anninger to the Hungarian border station Sopron. The equipments needed for the connection with Hungary are purchased in Austria by the Austrian PT-administration, on the Hungarian side by the Hungarian PT-administration. Since the equipment must have the same technique on both sides, either the technique utilized in Austria (German equipment has to be provided) or the technique normally utilized in Hungary (Budavoxequipment has to be installed in Austria), the transfer from Sopron

CONTINUENT

- 2 -

- 2 -

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During the negotiations between the PT-administration of Austria and Hungary, the Hungarian one has a reed to purchase the Hertzian links in Germany. The installation and the opening of the equipment in Hungary will be made by the German firm, this provides further safeguard that the equipment will not be used for other purposes. The servicing of the equipment will for the future as well depend on the producer safeguarding that an misuse of the equipment will be excluded. Particular attention is drawn to the fact that the delivery of the equipment will directly connect the Soviet-Bloccountry Hungary with the Free World communication system.

No technical know-how, unknown to the bloc will be provided by the shipment of the equipment, since the technique used is known by publications in technical reviews.

The technical data of the equipment are given in an annex attached.

The German Delegation present the request as an ad-hoc-case and hope that no objection will be raised. They will be grateful to receive the views of the Committee at an early opportunity.

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ANNEX to COCOM DOC 4130

TICHNICAL DATA

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A. Ceneral data
 Radio-frequency range... 3,800 to 4,200 mc/s
       corresponding to wavelengths. 7.9 to 7.1 cm
 Number of available RF channel pairs
       as per frequency allocation
       (Set A or B of equispaced frequencies)...6
 Separation between the transmitting
       and receiving frequencies
       of an RE channel pair
                            ...... 213 mc/s
 System value in transmitting
       a multichannel baseband
       Inside cross section of the
       antenna feeder ...... 58.2 mm x 29.1 mm
                              (2 9/32" x 1 5/32")
B. Modulation
Type of modulation.... Prequency modulation
1. Carrier baseband
  (600 voice channels).... 60 to 2,540 kc/s
  Maximum frequency swing.... approx. ±4.5 mc/s
       Mean channel swing....
                             +280 kc/s
                            (200 kc/s RMS)
  Relative input power level per channel:
       Standard value.....-15 db (-1.7 N) adjustable between...-18 and -14 db
                            (-2.1 to -1.6 N)
  Relative output level
       per channel..... -- 15 +0.5 db
                            (-1.7 \pm 0.05 \text{ N})
  Input and output impedances.... Z = 75 %
  Reflection attenuation
       at carrier terminal..... > 20 db
2. Television baseband . . . 0,01 to 5,000 kc/s
  Maximum frequency swing (peak-to-peak).. 8 mc/s
  Video signal voltage at input:
  Standard value...... Î v peak-to-peak adjustable between . 0.7 and 1.3 v peak-to-peak
  Video signal voltage
       at output.... 1 v peak-to-peak + 0.5 %
  Input and output impedances.... Z = 75.0
  Reflection attenuation
       at television terminal .... > 24 db
3. Service channel
   (-1.7 N)
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- 2 -

C. Transmitter
Transmitting power
D. Receiver
Noise figure
E. Power supply
Mains voltage
F. IF switching attachment Frequency range
Diversity unit 70 db (> 8N) Feed-out and feed-in units . > 52 db (> 6N) Highest switching rate of the diversity unit every 25 ms Level drop with a given input signal < 1.3 db (< 0.15N)
of the diversity unit 10 ps Power input: Diversity unit approx. 25 va Feed-out unit approx. 30 va Feed-in unit approx. 30 va

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